Quick Hardware Installation Guide



MAN-840-QH 02-24-04

MegaRAC G3
(Series 840)



Thank you for purchasing the MegaRAC G3. Please take a few minutes to review this quick guide before beginning the installation process. If you require a further explanation of any item covered in this guide, please refer to the installation instructions on your CD.

### Contents for the MegaRAC G3

You should have received the following:

- an American Megatrends MegaRAC G3
- This MegaRAC G3 Quick Installation Guide
- a MegaRAC G3 User's Guide (located on the MegaRAC G3 CD)
- a MegaRAC G3 CD
- one USB cable
- an AC Adapter

# **Technical Support**

If you need help installing, configuring, or running the MegaRAC G3, call American Megatrends technical support at 770-246-8645

Technical Support Web Site: http://www.ami.com/support/

Technical Support Email: support@ami.com

#### **Hardware Installation**

Use the following steps to install the MegaRAC G3.

Step	Action
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- Unpack the MegaRAC G3 card (and check jumper settings)
- Install the optional battery and battery clip
- Install the optional modem daughterboard
- Plug in the MegaRAC G3 card into the host system and attach internal cables
- Connect external cables
- Confirm the motherboard's BIOS settings
- Install the operating system and MegaRAC G3 card's drivers
- Install all American Megatrends MegaRAC G3 Windows Software Components
- Setup your client system's Internet browser
- 10 Connect to the MegaRAC G3 from a client system

# Step 1 Unpack the MegaRAC G3 Card (and check jumper settings)

Inspect the cardboard carton for obvious damage. If damaged, call 770-246-8600. Leave it in its original packing.

Jumper	Setting
JP4	Confirm that pins one and two are open.
JP5	Confirm that pins one and two are open.
JP6	Confirm that pins one and two are open.
JP7	Confirm that pins one and two are open.
JP8	Confirm that pins one and two are open.
JP11	Confirm that pins one and two are shorted.
JP12	Confirm that pins one, two and three are open

JP13 If your hosts system's motherboard has support for I2C on the PCI slots, place a short

pins one and two. If not, confirm that pins one and two are open.

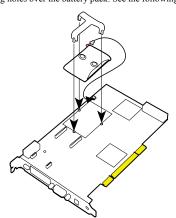
JP14 If your hosts system's motherboard has support for I2C on the PCI slots, place a short pins one and two. If not, confirm that pins one and two are open.

Only revision B1 and newer revisions of the MegaRAC G3 cards have jumpers JP13 Note:

and JP14. Revisions A and B do not have JP13 and JP14.

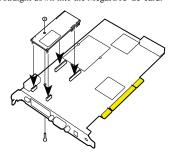
### Step 2 Install the Optional Battery and Battery Clip

To install the optional Battery Backup Unit, plug the battery cable into the J2 Battery connector and place the battery pack in between the three mounting holes. Next, align and snap the plastic battery clip into the three mounting holes over the battery pack. See the following diagram.

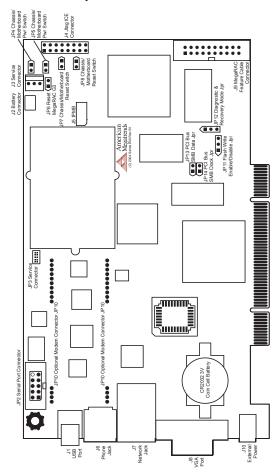


## Step 3 Install the Optional Modem Daughterboard

The MegaRAC G3 modem daughterboard is an optional component. Locate JP10 on the MegaRAC G3 card. It has a series of pinholes that allow you to insert the modem daughterboard. Match the modem daughterboard and the pin holes so that the pins align properly. Insert the modem daughterboard by sliding it straight down into the MegaRAC G3 card



### MegaRAC G3 Card Layout



Quick Hardware Installation Guide Englis

# Step 4 Plug in the MegaRAC G3 Card into the Host System and Attach Internal Cables

Physically plug in the MegaRAC G3 card into any available PCI slot inside the host system.

Connector Description

J4 JTAG ICE

J3 Service This jumper is used exclusively for servicing the MegaRAC G3 card. J3 is not

described in this document.

This header is used to debug and service the MegaRAC G3 card. J4 is not

described in this document.

J5 IPMB If your motherboard has an IPMB connector, you can connect a cable from J5 on

the MegaRAC G3 card to the IPMB connector on your motherboard.

J9 FeatureCon This feature connector is primarily used for operating the host system's motherboard power and reset switch. It can also be used to gather I2C bus

information from the motherboard.

JP2 Serial Port You can connect an external 9 pin serial port connector to this header. This header

is primarily used to text redirect over the serial port.

JP3 Service This jumper is used exclusively for servicing the MegaRAC G3 card. JP3 is not

described in this document.

JP4/JP5 Power JP4 and JP5 can be used in place of the MegaRAC Feature Cable to power on,

power off, and power cycle the motherboard. Connect a two pin cable from the motherboard's Power (Soft On/Off) header to JP4 on your MegaRAC G3 card.

Connect the chassis power switch to JP5 on your MegaRAC G3 card. JP6 Reset

You can short this jumper to reset your MegaRAC G3 card.

JP7/JP8 Reset JP7 and JP8 can be used in place of the MegaRAC Feature Cable to reset the

motherboard. Connect a two pin cable from the motherboard's Reset header to JP7 on your MegaRAC G3 card. Connect the chassis reset switch to JP8 on your

MegaRAC G3 card.

Note: JP13 and JP14 can be used in place of the MegaRAC Feature Cable to gather I2C bus

information from the motherboard.

Note: JP4 and JP5 can be used in place of the MegaRAC Feature Cable to power on, power

off, and power cycle the motherboard.

Note: JP7 and JP8 can be used in place of the MegaRAC Feature Cable to reset the

motherboard.

Note: Only the OEM version can utilize the hardware health monitoring capabilities of

MegaRAC G3 card. The hardware health monitoring function requires an OEM

specific cable and Sensor Definition Kit (SDK/SDR) file.

**Note:** IPMI support is an OEM version feature.

**Note:** The optional MegaRAC feature connector cable must be custom made for your specific

configuration.

# **Step 5 Connect External Cables**

- Connect the USB cable from the back of the MegaRAC G3 card to the motherboard's USB port.
- Connect your VGA monitor to your MegaRAC G3 card.
- Connect the RJ45 LAN cable from your local network to your MegaRAC G3 card.
- Connect your phone cord from the back of the MegaRAC G3 card to the telephone wall
  outlet. (Only if the optional modem daughterboard is installed.)
- Connect your AC adapter. (The AC adapter is an optional component.)

## Step 6 Confirm the Motherboard's BIOS Settings

Power on the motherboard and enter the BIOS. Using the following table, confirm that your motherboard's BIOS settings are correct.

BIOS Section

Boot Options> Removable Devices
Boot Options> ATAPI CDROM AMI Virtual Floppy or USB Boot Device
Advanced> PCIPnP> Configuration> Enable

Legacy USB Support

Save the BIOS settings and restart the computer.

Note: Make sure that your motherboard BIOS supports Legacy USB devices, USB Boot or

Boot to USB.

Note: On some moth

On some motherboards and server boards, depress the <CTRL>, <ALT>, and <ESC>

Setting

keys simultaneously to enter the BIOS. On others use the <F2> keys. See your server's documentation for more information on entering the BIOS setup.

# Step 7 Install the Operating System and MegaRAC G3 Card's Drivers

Microsoft® Windows 2000/2003/XP operating systems need an .INF for the *AMI Virtual Floppy* device exposed by the G3 card. Use the default .INF for the *AMI Virtual CDROM*.

Note: The AMI Virtual Floppy installation procedure needs to be done one time only on the host system. Once the AMI Virtual Floppy is properly loaded, you can perform floppy

redirection without going through any extra steps.

Note: Do NOT use the default file that the Microsoft® Windows operating system presents

when it is searching for the AMI Virtual Floppy driver. Ensure that the Microsoft® Windows operating system is asking for the AMI Virtual Floppy driver before allowing

the installation of the . INF file to continue.

# Step 8 Install all American Megatrends MegaRAC G3 Windows Software Components

American Megatrends MegaRAC G3 Windows Software Components is a collection of MegaRAC G3 host-side and remote access components. Insert your MegaRACTM G3 CD into the host system. The host system is the system that has the MegaRAC G3 card installed into it. Browse to the following folder and file:

#### CDROM\ServerAgents\Win32\Setup.exe

Double left click the **Setup.exe** icon to begin the installation of the American Megatrends MegaRAC G3 *Windows Host Component*. Follow the instructions. After the installation is complete, install the American Megatrends MegaRAC G3 *Windows Software Components* on a local network computer that you want to use to access the host system.

## Step 9 Setup your Client System's Internet Browser

You must first setup your Internet browser on the client system before you can redirect the host system's console.

- Open Internet Options. To get there, open your Internet Explorer browser, left click Tools and then Internet Options. The Internet Options window opens. Left click the Settings button.
- The Settings window opens. Left click the Every visit to the page button or Automatically button. Left click the OK button to apply the change and to go back to the Internet Options window.
- Next, you must setup Internet Explorer to allow the downloading of Signed ActiveX controls
  and also allow it to run Signed ActiveX controls. To do this, left click the Security tab and then
  the Custom Level button.
- The Security Settings window opens. Left click the Enable button under the Download signed ActiveX controls section. Scroll down and left click the Enable button under the Run ActiveX controls and plug-ins section. Left click the OK button. You are prompted with a Warning window. Left click the Yes button to accept the changes to the Internet zone and to go back to the Internet Options window. Left click the Apply button and then the OK button to make the changes.

**Note:** You must restart Internet Explorer before the changes take effect.

**Note:** Remote Console cannot run with any other security settings in Internet Explorer.

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# Step 10 Connect to the MegaRAC G3 from a Client System

In order to connect to the MegaRAC G3 card, you must access the MegaRAC G3 from another system on the same network. AMI refers to this other system as the client system. To do this, you must know the MegaRAC G3 card's IP address. If you have installed the MegaRAC G3 on a network that uses DHCP, you can search the network for the MegaRAC G3 card. To locate and find out its IP address, you must run *RacTrendsSeek Locator*.

Note: Make sure that you have already installed the MegaRAC G3 Windows Software Components on the system that you want to use to locate the MegaRAC G3 card.

- Locate the RacTrendsSeek Locator program on your remote client system. Run the RacTrendsSeek Locator program by double left clicking on it and left click on the Next button after it opens
- Type in your Network Name. For example, Corporate. Next, you must enter a range of IP addresses that you want to search. Left click the Add>> button when finished.
- The name and IP range of the MegaRAC G3 will display in the right field. Place a check in the box next to the range of IP addresses. Left click on the Next button.
- The name and IP range of the MegaRAC G3 will display in the Selected IP Range window. Left click on the Next button.
- If the IP range is correct, RacTrendsSeek Locator will locate the MegaRAC G3 card. It will list all MegaRAC cards it has discovered.
- Double left click on the IP address to start managing the MegaRAC G3 card and write down its IP address. Left click on the Finish button after RacTrendsSeek Locator discovers all MegaRAC cards.
- When prompted for the user name and password, enter the following (The default user name and password are in lower-case characters):

Field Default
User Name root
Password superuser

 Left click the OK button. After you successfully log into your MegaRAC G3 card, you are greeted with the Welcome to MegaRAC G3 screen.

When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.

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Note:

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